

Title (en)
Apparatus and process for electrolytic ozone generation

Title (de)
Apparat und Verfahren zur elektrolytischen Herstellung von Ozon

Title (fr)
Appareil et procédé pour la génération électrolytique d'ozone

Publication
EP 0560740 B1 19970730 (EN)

Application
EP 93830089 A 19930305

Priority
JP 8644192 A 19920309

Abstract (en)
[origin: EP0560740A1] An electrolytic ozone generating apparatus comprising a laminated structure comprising (i) an anode composed of an electrically conductive porous material carrying an ozone generating catalyst, (ii) a perfluorocarbonsulfonic acid ion-exchange membrane functioning as a solid electrolyte, and (iii) a cathode composed of a gas electrode containing a catalyst for oxygen reduction, and means for supplying an oxygen-containing gas to the cathode, wherein the gas electrode functioning as the cathode has both hydrophilic and hydrophobic properties and the catalyst is unevenly distributed therein, being concentrated at the ion-exchange membrane and a process for generating ozone using the apparatus, by conducting the electrolysis while supplying an oxygen-containing gas to the cathode side. <IMAGE>

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IPC 8 full level
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CPC (source: EP US)
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